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### [1. N16A-T015: Reduced Cost, Repeatable, Improved Property Washout Tooling for Composite Fabrication](#)

Release Date: 12-11-2015 Open Date: 01-11-2016 Due Date: 02-17-2016 Close Date: 02-17-2016

TECHNOLOGY AREA(S): Air Platform, Materials/Processes ACQUISITION PROGRAM: Commander Fleet Readiness Centers (COMFRC)/ Potential Application to V-22, OBJECTIVE: To develop a process capable of producing a washout tool that can be used in the manufacturing of composite structures using tape placement, Vacuum Assisted Resin Transfer Molding Process (VARTM) and Fused Deposition Modeling (FDM) technol ...

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### [2. N16A-T016: Platform for Large-scale Unsupervised and Supervised Learning](#)

Release Date: 12-11-2015 Open Date: 01-11-2016 Due Date: 02-17-2016 Close Date: 02-17-2016

TECHNOLOGY AREA(S): Human Systems, Information Systems ACQUISITION PROGRAM: Distributed Common Ground System-Navy (DCGS-N), Data Focused Naval Tactical OBJECTIVE: Develop a platform which takes in large amounts of data from a variety of

sources, analyzes it using sophisticated and fast algorithms and provides detailed interpretable probabilistic models as output. DESCRIPTION: Recent advances in te ...

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### **3. N16A-T017: Computational Methods for Dynamic Scene Reconstruction**

Release Date: 12-11-2015Open Date: 01-11-2016Due Date: 02-17-2016Close Date: 02-17-2016

TECHNOLOGY AREA(S): Battlespace, Information Systems ACQUISITION PROGRAM: Data Focused Naval Tactical Clouds (DFNTC) FNC; Also relevant to DCGS-N OBJECTIVE: Develop and demonstrate efficient and robust computational methods for 4D space-time reconstruction of dynamic scenes by integrating data from multiple imaging sensors and ancillary information when available. Also, develop the capability to b ...

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### **4. N16A-T018: 3D Acoustic Model for Geometrically Constrained Environments**

Release Date: 12-11-2015Open Date: 01-11-2016Due Date: 02-17-2016Close Date: 02-17-2016

TECHNOLOGY AREA(S): Battlespace, Human Systems ACQUISITION PROGRAM: Advanced Underseas Weapons System (AUWS) OBJECTIVE: Produce a 3D Acoustic model for predicting three-dimensional acoustic field parameters in environments characterized by complex geometries with variable boundary and propagation conditions. Assess the new model for use in existing, or newly developed, sonar performance estimation ...

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### **5. N16A-T019: Thermal Barrier Coatings for Long Life in Marine Gas Turbine Engines**

Release Date: 12-11-2015Open Date: 01-11-2016Due Date: 02-17-2016Close Date: 02-17-2016

TECHNOLOGY AREA(S): Battlespace, Ground/Sea Vehicles, Materials/Processesd ACQUISITION PROGRAM: FNC EPE FY15-02 Gas Turbine Developments for Reduced Total Ownership Cost a OBJECTIVE: To develop thermal barrier coatings (TBCs) and a coating model that enables longer service and prediction of corrosion, oxidation and overall degradation when exposed to marine Naval environments as a function of corr ...

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### **6. N16A-T020: Embedded Space Analytics**

Release Date: 12-11-2015Open Date: 01-11-2016Due Date: 02-17-2016Close Date: 02-17-2016

TECHNOLOGY AREA(S): Information Systems ACQUISITION PROGRAM: FNT FY15-02 DF Naval Tactical Cloud, PMMI (MCSC), DCGS-N (PMW 120) OBJECTIVE: Develop a capability to detect

people, places and events of interest from big data by developing anomaly detection and supervised learning algorithms that can operate effectively on compressed data and data embeddings. DESCRIPTION: Model based understanding tec ...

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**7. [N16A-T021: High Performance Energetic Propellant Ingredient Process Research and Development](#)**

Release Date: 12-11-2015Open Date: 01-11-2016Due Date: 02-17-2016Close Date: 02-17-2016

TECHNOLOGY AREA(S): Materials/Processes, Weapons ACQUISITION PROGRAM: PEO IWS; LCS Surface Warfare Mission Package; Hellfire OBJECTIVE: Scale-up, characterize, and provide homogeneous samples of new high density energetic materials sufficient for manufacturing and characterizing a representative propellant formulation. Methods for the preparation of representative advanced energetic ingredients wh ...

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**8. [N16A-T022: Integrated Computational Material Engineering Approach to Additive Manufacturing for Stainless Steel \(316L\)](#)**

Release Date: 12-11-2015Open Date: 01-11-2016Due Date: 02-17-2016Close Date: 02-17-2016

TECHNOLOGY AREA(S): Ground/Sea Vehicles, Materials/Processes ACQUISITION PROGRAM: EPE-17-03 Quality Metal Additive Manufacturing OBJECTIVE: Develop an Integrated Computational Materials Engineering (ICME) approach to the Additive Manufacturing (AM) of stainless steel (316L), to predict final metal part quality and performance. DESCRIPTION: Many Naval systems have long mean logistics delay times fo ...

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**9. [N16A-T023: Epitaxial Technologies for Gallium Oxide Ultra High Voltage Power Electronics](#)**

Release Date: 12-11-2015Open Date: 01-11-2016Due Date: 02-17-2016Close Date: 02-17-2016

TECHNOLOGY AREA(S): Electronics, Ground/Sea Vehicles, Weapons ACQUISITION PROGRAM: PEO SHIPS: PMS 320 Electric Ships Office OBJECTIVE: Develop gallium oxide epitaxial growth system to enable the realization of novel high voltage (greater than 20kV) power electronic switching and pulse power devices. DESCRIPTION: Future Navy ships will require high power converters for applications such as rail gun ...

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**10. [N16A-T024: Multi-Access Optical System for Communications and Sensing Applications](#)**

Release Date: 12-11-2015Open Date: 01-11-2016Due Date: 02-17-2016Close Date:

02-17-2016

TECHNOLOGY AREA(S): Battlespace, Information Systems, Sensors ACQUISITION PROGRAM: SSPDD, SHD-FY16-05 "SURFACE SHIP PERISCOPE DETECTION AND DISCRIMINATION"

OBJECTIVE: Develop a small form-factor, highly scalable and affordable point-to-multi-point optical sensing and communications architecture for data transfer between numerous sensors and platforms in multiple environments. DESCRIPTION: For ...

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